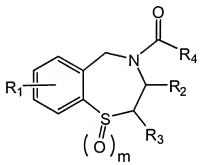
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-12. (Canceled)

13. (Currently Amended) A method for increasing binding of FKBP12.6 to RyR2 in a subject, or limiting a decrease in the level of RyR2-bound FKBP12.6 in a subject, comprising administering an effective amount of an agent to the subject, wherein the agent is described by the formula:



(g)

wherein

R_1 = H, OR', SR', NR', alkyl, or halide, at position 2, 3, 4, or 5 on the phenyl ring;

R' = alkyl, aryl, or acyl;

R_2 = H, alkyl, alkenyl, or aryl;

R_3 = H, alkyl, alkenyl, or aryl;

R_4 = H, halide, alkenyl, carboxylic acid, or an alkyl containing halogen, O[[,]] or S[[,]] ~~or~~ N; and

m = 0, 1, or 2.

14. (Canceled)

15. (Original) The method of claim 13, wherein the subject is a human.

16. (Canceled)

17. (Currently Amended) The method of claim 13, wherein the subject has a cardiac condition selected from the group consisting of cardiac arrhythmia, tachycardia, ~~atrial arrhythmia, atrial tachyarrhythmia, atrial fibrillation, sustained atrial fibrillation, non-sustained atrial fibrillation,~~ ventricular arrhythmia, ventricular fibrillation, ventricular tachycardia, sustained ventricular tachycardia, non-sustained ventricular tachycardia, catecholaminergic polymorphic ventricular tachycardia (CPVT), heart failure, sudden cardiac death and exercise-induced sudden cardiac death.

18. (Previously Presented) The method of claim 13, wherein the effective amount of the agent is one or more of:

(a) from about 5 mg/kg/day to about 20 mg/kg/day,

(b) an amount resulting in a plasma concentration of from about 0.02μM to about 1.0μM in the subject, or

(c) an amount resulting in a plasma concentration of from about 300 ng/ml to about 1000 ng/ml in the subject.

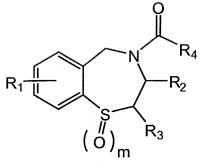
19.–24. (Canceled)

25. (Previously Presented) The method of claim 13, wherein the agent is S7, S20, S27, or S36.

26. (Original) The method of claim 25, wherein the agent is S36.

27-28. (Canceled)

29. (Currently Amended) A method for reducing the risk of sudden cardiac death, sustained VT and non-sustained VT ~~treating a cardiac condition~~ in a subject, comprising administering an effective amount of an agent to the subject, wherein the agent is described by the formula:



(g)

wherein

R_1 = H, OR', SR', NR', alkyl, or halide, at position 2, 3, 4, or 5 on the phenyl ring;

R'= alkyl, aryl, or acyl;

R_2 = H, alkyl, alkenyl, or aryl;

R_3 = H, alkyl, alkenyl, or aryl;

R_4 = H, halide, alkenyl, carboxylic acid, or an alkyl containing halogen, O[[,]] or S[[,]] ~~or N~~; and

m = 0, 1, or 2.

30. (Currently amended) The method of claim 29, wherein the ~~cardiac~~ agent is administered to a subject that has or is at risk of developing a condition is selected from the group consisting of cardiac arrhythmia, tachycardia, ~~atrial arrhythmia, atrial tachyarrhythmia, atrial fibrillation, sustained atrial fibrillation, non-sustained atrial fibrillation,~~ ventricular arrhythmia, ventricular fibrillation, ventricular tachycardia, sustained ventricular tachycardia, non-sustained ventricular tachycardia, catecholaminergic polymorphic ventricular tachycardia (CPVT), heart failure, sudden cardiac death and exercise-induced sudden cardiac death.

31-32. (Canceled)

33. (Previously Presented) The method of claim 29, wherein the effective amount of the agent is one or more of:

(a) from about 5 mg/kg/day to about 20 mg/kg/day,

(b) an amount resulting in a plasma concentration of from about 0.02μM to about 1.0μM in the subject, or

(c) an amount resulting in a plasma concentration of from about 300 ng/ml to about 1000 ng/ml in the subject.

34. (Previously Presented) The method of claim 29, wherein the agent is selected from the group consisting of S7, S20, S27, and S36.

35. (Original) The method of claim 34, wherein the agent is S36.

36.-42. (Canceled)

43. (Previously Presented) The method of claim 29, wherein the subject is a human.

44.-46. (Canceled)

47. (Previously Presented) The method of claim 13, wherein R_1 = OR' at position 3 on the phenyl ring.

48. (Previously Presented) The method of claim 13, wherein R_2 = H and R_3 = H.

49. (Previously Presented) The method of claim 13, wherein R_4 = alkenyl, carboxylic acid, or an alkyl containing I or Br; and m = 0 or 1.

50. (Previously Presented) The method of claim 13, wherein R_1 = OR' at position 3 on the phenyl ring; R' = alkyl; R_2 = H; R_3 = H; and m = 0 or 1.

51. (Previously Presented) The method of claim 50, wherein R_4 = alkenyl, carboxylic acid, or an alkyl containing I or Br; and R' = methyl.

52. (Previously Presented) The method of claim 51, wherein m = 0; and R_4 = alkenyl or carboxylic acid.

53. (Previously Presented) The method of claim 29, wherein R_1 = OR' at position 3 on the phenyl ring.

54. (Previously Presented) The method of claim 29, wherein R_2 = H and R_3 = H.

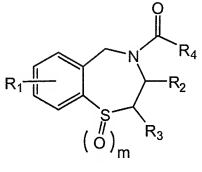
55. (Previously Presented) The method of claim 29, wherein R_4 = alkenyl, carboxylic acid, or an alkyl containing I or Br; and m = 0 or 1.

56. (Previously Presented) The method of claim 29, wherein R_1 = OR', at position 3 on the phenyl ring; R' = alkyl; R_2 = H'; R_3 = H; and m = 0 or 1.

57. (Previously Presented) The method of claim 56, wherein R_4 = alkenyl, carboxylic acid, or an alkyl containing I or Br; and R' = methyl.

58. (Previously Presented) The method of claim 57, wherein m = 0; and R_4 = alkenyl or carboxylic acid.

59. (Currently Amended) A method for ~~preventing~~ treating cardiac arrhythmia in a subject, comprising administering an effective amount of an agent to the subject, wherein the agent is described by the formula:



(g)

wherein

R_1 = H, OR', SR', NR', alkyl, or halide, at position 2, 3, 4, or 5 on the phenyl ring;

R' = alkyl, aryl, or acyl;

R_2 = H, alkyl, alkenyl, or aryl;

R_3 = H, alkyl, alkenyl, or aryl;

R_4 = H, halide, alkenyl, carboxylic acid, or an alkyl containing halogen, O[[,]] or S[[,]] ~~or N~~; and

m = 0, 1, or 2.

60. (Previously Presented) The method of claim 59, wherein the effective amount of the

agent is one or more of:

(a) from about 5 mg/kg/day to about 20 mg/kg/day,

(b) an amount resulting in a plasma concentration of from about 0.02 μM to about 1.0 μM in the subject, or

(c) an amount resulting in a plasma concentration of from about 300 ng/ml to about 1000 ng/ml in the subject.

61. (Previously Presented) The method of claim 59, wherein the agent is S7, S20, S27, or S36.

62. (Previously Presented) The method of claim 59, wherein the agent is S36.

63. (Previously Presented) The method of claim 59, wherein the subject is a human.

64. (Previously Presented) The method of claim 59, wherein R_1 = OR' at position 3 on the phenyl ring.

65. (Previously Presented) The method of claim 59, wherein R_2 = H and R_3 = H.

66. (Previously Presented) The method of claim 59, wherein R_4 = alkenyl, carboxylic acid, or an alkyl containing I or Br; and m = 0 or 1.

67. (Previously Presented) The method of claim 59, wherein R_1 = OR' at position 3 on the phenyl ring; R' = alkyl; R_2 = H; R_3 = H; and m = 0 or 1.

68. (Previously Presented) The method of claim 67, wherein R_4 = alkenyl, carboxylic acid, or an alkyl containing l or Br; and R' = methyl.

69. (Previously Presented) The method of claim 68, wherein m = 0; and R_4 = alkenyl or carboxylic acid.